



CDG Valve Manufacturer

©CDG Valve Manufacturer

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CDG Valve Manufacturer

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COMPANY HISTORY

- 1963 : Founded CDG.
- 1985 : CDG brand creation.
- 1989 : Production of pneumatic actuators, and Italy FABIA to establish acooperation.
- 1992 : With the United States FAIRCHILD cooperation, Production of electric actuators.
- 2001 : Focus on the production and assembly of CDG.
- 2005 : Production of hydraulic actuators.
- 2006 : Production of valves.
- 2011 : Oil station development and use.
- 2016 : Set up a number of representative offices in China.

Company introduction

The CDG is a famous valve manufacturers, the company is headquartered in America's largest city, Detroit, Michigan is located in the northeastern United States, Canada, Detroit river north of Windsor an important port city. With strong industrial base and freight advantage.

CDG products have unique design, short delivery time, competitive price and excellent after-sales support. As a professional manufacturer of valves, it quickly became the industry leader.

CDG has more than 50 years experience in the valve industry. The r&d department USES these experiences to constantly design new products, improve existing products, and adapt to changing market demands and constantly improving international standards.

CDG can provide standard and non-standard solutions that can be customized according to customer needs.

CDG has created a wide range of reliable products. CDG is favored and admired by the world's leading EPC and oil and gas companies because of its high performance in extreme conditions. Its products are

used in power plant, petrochemical, metallurgy, papermaking, automobile and more Product certification based on customer requirements and government legislation is a guarantee of product quality. CDG USES advanced testing laboratories to ensure the durability of its products. Fire safety, high temperature and low temperature testing can be carried out under extreme conditions.

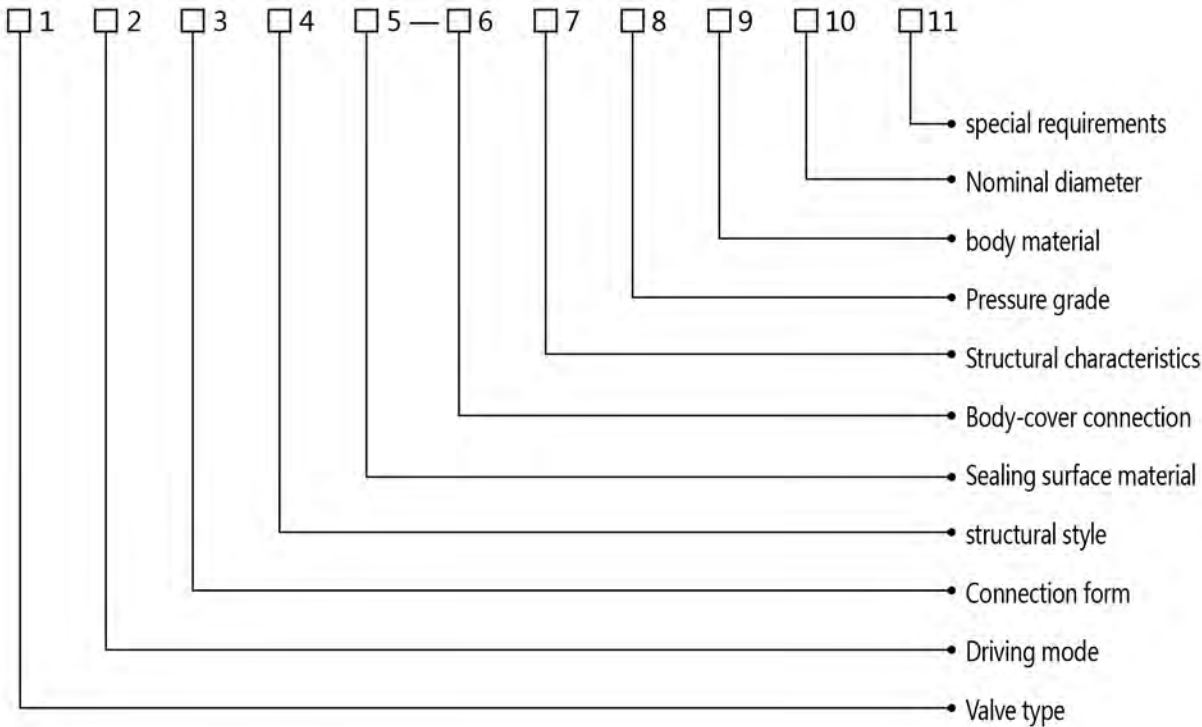
CDG good position, provide comprehensive after-sales support, fast, efficient, with unparalleled expertise. Our skilled engineers and technicians work 24 hours a day to respond to customer queries, solve problems, and provide reliable solutions. A comprehensive after-sales service creates a complete solution, customer support, covering all requirements.

CDG is a long-term, reliable, available and cost- effective partner for your existing and new business.

CDG brand is comprehensive, including valve and oil station, pneumatic actuator, electric actuator and hydraulic actuator and other related fields. To enable CDG to meet different needs it can be sold separately, and can be matched in a complete set, so that users can reduce their worries.

CDG check valves can be used reliably and stably in high and low pressure applications such as oil, gas, steam, air and gas. Inside-mounted rocker arm structure is adopted to reduce the possibility of medium leakage. If customers need swing check valves, they can be equipped with external lever and adjusting pressing iron. They can be equipped with a wide range of internal materials and the connection form between valve body and valve cover according to working conditions. Large caliber can be used with retarding device.

Description of Model Formulation



- Valve Type Code: CH-Check Valve
2. Driving mode code: 3-worm gear and worm drive 4-spur gear 5-bevel gear 6-pneumatic 9-electric (handwheel drive strategy)
3. Connection form code: 4-flange connection 6-butt welding
4. Structural form code: 1-lifting type 4-swing type
5. Sealing material code: Y-cemented carbide F-polytetrafluoroethylene (PTFE) FS-PTFE+carbon fiber FC-PTFE+carbon fiber+copper H-iron base alloy M-Monel alloy
6. Body and cover connection code: W-welding connection P-pressure seal connection
7. Structural Characteristic Code: Y-Y Valve
8. Pressure Grade Code: Nominal Pressure Scale is Actual Number
9. Valve body material code: C-WCB, I-WC6, V-WC9, R-CF8M, S-CF3, L-CF3M, F-LCB, O-CF8, P-F91
10. Nominal Path Code: Inch
11. Special Requirements Code: S-Sulphur Resistant L-Low Temperature X-Lengthened Rod Type I-Insulation Type
- Note: Carbon steel valve body, omit this code

The following structure is adopted:

- Taper Seal Disc or Soft Seal Structure
- Replaceable upper seal seat
- Bolt connection, wound gasket octagonal gasket sealed bonnet and pressure self-tightening bonnet

The following criteria are used:

- Flange end conforms to: ASME B16.5
- The butt welding end conforms to: ASME B16.25
- The length of the structure conforms to: ASME B16.10



Cover bolt connection



Cover bolted connection with bypass

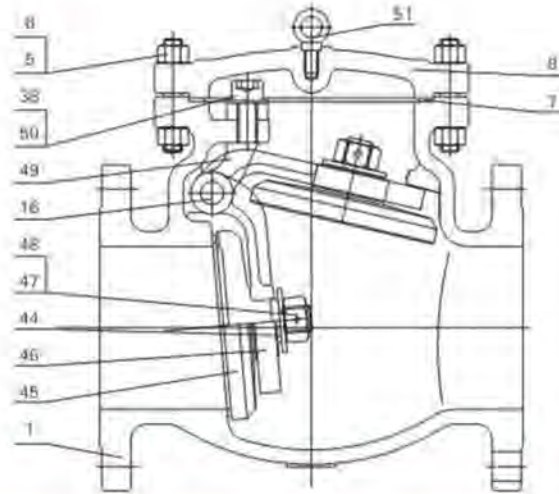


Cover pressure self-sealing connection

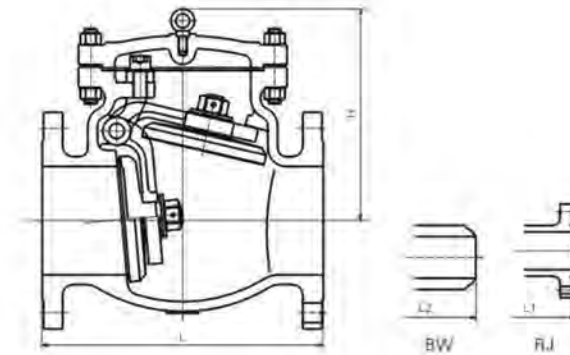


Y-type valve cover pressure self-sealing connection

Cover bolted check valve



Serial number	Part name	WCB	LCC	C5	C12	WC6	CF8M
1	valve body	A216 WCB	A352 LCC	A217 C5	A217 C12	A217 WC6	A351 CF8M
5	Bolt	A193 B7	A320 L7M	A193 B7	A193 B7	A193 B7	A193 B8M
6	Nut	A194 2H	A194 7M	A194 2H	A194 2H	A194 2H	A194 8M
7	Shim 150Lb		graphite GHE				316 pack graphite
	Shim 300Lb		304 clips of flexible graphite				Spiral wound
	Shim ≥ 600Lb		F304				Spiral wound
8	Bonnet	A216 WCB	A352 LCC	A217 C5	A217 C12	A217 WC6	A351 CF8M
16	Cross pin	410	410	410	410	410	304
38	Inner hexagonal bolt	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
44	Washer	410	410	410	410	410	304
45	Disc	A105/STL6	A350 LF2/STL6	A335-P5/STL6	AISI 321/STL6	A182 F11/STL6	A182 F316
46	rocker arm	A216 WCB	A352 LCC	A217 C5	A217 C12	A217 WC6	A351 CF8M
47	Nut	410	410	410	410	410	304
48	Cotter pin	304	304	304	304	304	304
49	Bracket	A216 WCB	A352 LCC	A217 C5	A217 C12	A217 WC6	A351 CF8M
50	Elastic washer	17-4PH	17-4PH	17-4PH	17-4PH	17-4PH	17-4PH
51	eyebolt	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8



CH44H-150Lb

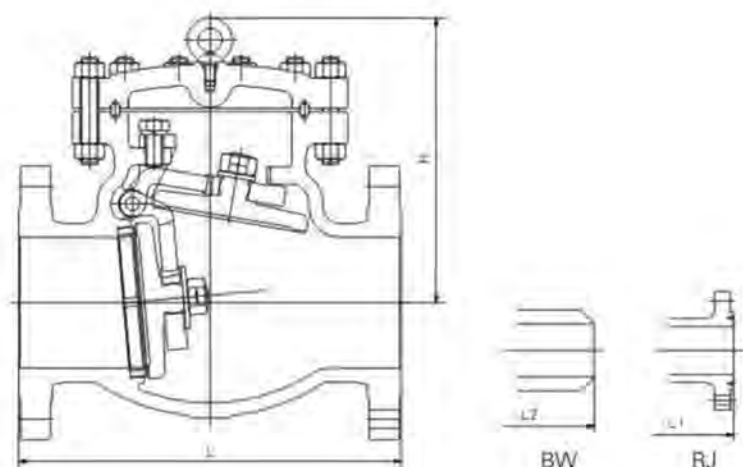
NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg)
2"	7.99/203	8.50/216	7.99/203	5.71/145	17
2 1/2"	8.50/216	9.02/229	8.50/216	6.30/160	20
3"	9.49/241	10.00/254	9.49/241	7.09/180	25
4"	11.50/292	12.01/305	11.50/292	8.27/210	40
5"	12.99/330	13.50/343	12.99/330	9.84/250	67
6"	14.02/356	14.53/369	14.02/356	11.50/292	93
8"	19.49/495	20.00/508	19.49/495	14.17/360	134
10"	24.49/622	25.00/635	24.49/622	15.75/400	199
12"	27.48/698	27.99/711	27.48/698	18.31/465	305
14"	30.98/787	31.50/800	30.98/787	20.63/524	370
16"	34.02/864	34.53/877	34.02/864	24.41/620	542
18"	38.50/978	39.02/991	38.50/978	27.17/690	750
20"	38.50/978	39.02/991	38.50/978	28.35/720	900
24"	50.98/1295	51.50/1308	50.98/1295	29.13/740	1200
26"	57.01/1448	-	57.01/1448	33.46/850	1750
30"	60.00/1524	-	60.00/1524	39.57/1005	2100

CH44H-300Lb

NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg)
2"	10.51/267	11.14/283	10.51/267	6.22/158	23
2 1/2"	11.50/292	12.13/308	11.50/292	7.09/180	37
3"	12.52/318	13.15/334	12.52/318	7.87/200	46
4"	14.02/356	14.65/372	14.02/356	8.98/228	71
5"	15.75/400	16.38/416	15.75/400	11.22/285	100
6"	17.48/444	18.15/461	17.48/444	12.40/315	118
8"	20.98/533	21.61/549	20.98/533	15.16/385	202
10"	24.49/622	25.12/638	24.49/622	17.01/432	296
12"	27.99/711	28.62/727	27.99/711	19.29/490	428
14"	32.60/828	33.62/854	32.60/828	21.73/552	583
16"	34.02/864	34.65/880	34.02/864	24.61/625	754
18"	38.50/978	39.13/994	38.50/978	26.61/676	935
20"	40.00/1016	40.75/1035	40.00/1016	29.21/742	1155
24"	52.99/1346	53.86/1368	52.99/1346	31.89/810	1408

CH44H-600Lb

NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg)
2"	11.50/292	11.61/295	11.50/292	6.69/170	26
2 1/2"	12.99/330	13.11/333	12.99/330	7.40/188	32
3"	14.02/356	14.13/359	14.02/356	9.37/238	49
4"	17.01/432	17.13/435	17.01/432	11.42/290	86
5"	20.00/508	20.12/511	20.00/508	12.80/325	165
6"	22.01/559	22.13/562	22.01/559	13.98/355	252
8"	25.98/660	26.10/663	25.98/660	16.34/415	429
10"	30.98/787	31.10/790	30.98/787	18.82/478	557
12"	32.99/838	33.11/841	32.99/838	21.26/540	670
14"	35.00/889	35.12/892	35.00/889	22.83/580	944
16"	39.02/991	39.13/994	39.02/991	26.38/670	1300
18"	42.99/1092	43.11/1095	42.99/1092	30.94/786	1760
20"	47.01/1194	47.24/1200	47.01/1194	33.27/845	2200
24"	55.00/1397	55.39/1407	55.00/1397	37.01/940	2864



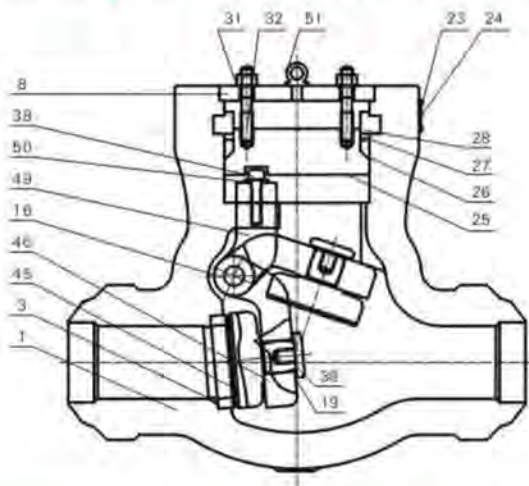
CH44H-900Lb

NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg)
2"	14.49/368	14.61/371	14.49/368	7.87/200	58
2 1/2"	16.50/419	16.61/422	16.50/419	10.24/260	76
3"	15.00/381	15.12/384	15.00/381	11.22/285	100
4"	17.99/457	18.11/460	17.99/457	12.76/324	140
5"	22.01/559	22.13/562	22.01/559	14.57/370	217
6"	24.02/610	24.13/613	24.02/610	16.69/424	294
8"	29.02/737	29.13/740	29.02/737	20.55/522	700
10"	32.99/838	33.11/841	32.99/838	21.46/545	724
12"	37.99/965	38.11/968	37.99/965	23.23/590	870
14"	40.51/1029	40.91/1039	40.51/1029	25.20/640	1254
16"	44.49/1130	44.88/1140	44.49/1130	27.56/700	1800

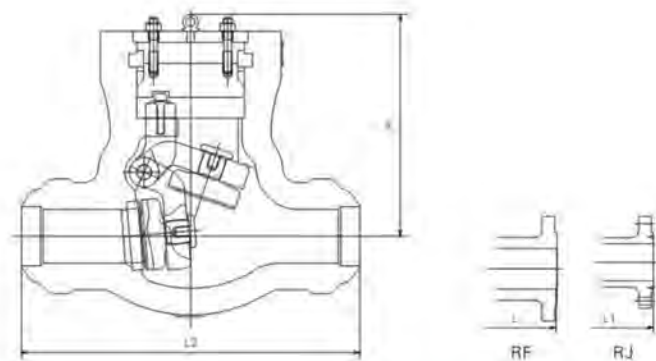
CH44H-1500Lb

NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg)
2"	14.49/368	14.61/371	14.49/368	7.87/200	66
2 1/2"	16.50/419	16.61/422	16.50/419	10.63/270	84
3"	18.50/470	18.62/473	18.50/470	11.22/285	123
4"	21.50/546	21.61/549	21.50/546	13.90/353	192
5"	26.50/673	26.61/676	26.50/673	15.83/402	320
6"	27.76/705	27.99/711	27.76/705	18.50/470	481
8"	32.76/832	33.15/842	32.76/832	22.09/561	760
10"	39.02/991	39.41/1001	39.02/991	25.98/660	1058
12"	44.49/1130	45.12/1146	44.49/1130	29.53/750	1440
14"	49.49/1257	50.24/1276	49.49/1257	33.46/850	1745
16"	54.49/1384	55.35/1406	54.49/1384	37.60/955	2500

Cover pressure self-sealing connection check valve (power station)



Serial number	Part name	WCB	WC6	WC9	CF8	CF8M
1	valve body	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M
3	valve seat	A105/STL.6	A182 F11/STL.6	A182 F22/STL.6	A182 F304	A182 F316
8	Bonnet	A216 WCB	A216 WCB	A216 WCB	A351 CF8	A351 CF8
16	Cross pin	A276 410	A276 304	A276 304	A276 304	A276 316
19	Check screw	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
23	Nameplate	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304
24	rivet	AL	AL	AL	AL	AL
25	Self sealing seat	A105	A182 F11	A182 F22	A182 F304	A182 F316
26	Self sealing gasket	304 Wire + Flexible Graphite				
27	Self sealing ring	A182 F6a	A182 F6a	A182 F6a	A182 F304	A182 F316
28	Four open loop	A182 F6a	A182 F11	A182 F22	A182 F304	A182 F316
31	Hanging bolt	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8
32	Nut	A194 2H	A194 2H	A194 2H	A194 8	A194 8
36	Disc cover	A182 F6a	A182 F304	A182 F304	A182 F304	A182 F304
38	Inner hexagonal bolt	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
45	Disc	A105/STL.6	A182 F11/STL.6	A182 F22/STL.6	A182 F304	A182 F316
46	rocker arm	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M
49	Bracket	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M
50	Elastic washer	17-4PH	17-4PH	17-4PH	17-4PH	17-4PH
51	eyebolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B7



CH64Y-P900Lb

NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg)
2"	14.49/368	14.61/371	8.50/216	8.46/215	25
2 1/2"	16.50/419	16.61/422	10.00/254	9.65/245	35
3"	15.00/381	15.12/384	12.01/305	11.50/292	46
4"	17.99/457	18.11/460	14.02/356	12.52/318	68
6"	24.02/610	24.13/613	20.00/508	15.75/400	170
8"	29.02/737	29.13/740	25.98/660	18.31/465	460
10"	32.99/838	33.11/841	30.98/787	20.35/517	700
12"	37.99/965	38.11/968	35.98/914	23.31/592	1020
14"	40.51/1029	40.91/1039	39.02/991	25.20/640	1220
16"	44.49/1130	44.88/1140	42.99/1092	27.56/700	1350

CH64Y-P1500Lb

NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg)
2"	14.49/368	14.61/371	8.50/216	9.65/245	26
2 1/2"	16.50/419	16.61/422	10.00/254	10.43/265	36
3"	18.50/470	18.62/473	12.01/305	11.81/300	50
4"	21.50/546	21.61/549	15.98/406	13.46/342	80
6"	27.76/705	27.99/711	22.01/559	17.24/438	290
8"	32.76/832	33.15/842	27.99/711	21.02/534	490
10"	35.87/911	39.41/1001	34.02/864	22.76/578	750
12"	44.49/1130	45.12/1146	39.02/991	25.51/648	1110
14"	49.49/1257	50.24/1276	42.01/1067	27.56/700	1415
16"	54.49/1384	55.35/1406	47.01/1194	30.31/770	1605

CH64Y-P2000Lb

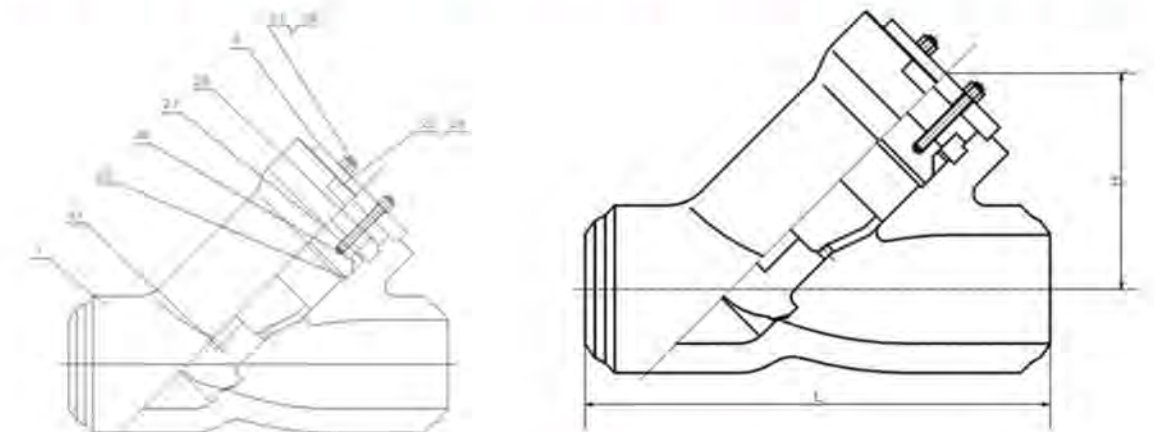
NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg)
2"	15.75/400	16.34/415	10.98/279	9.84/250	40
2 1/2"	17.72/450	17.91/455	12.99/330	10.63/270	60
3"	20.47/520	20.67/525	14.49/368	12.01/305	90
4"	24.21/615	24.41/620	17.99/457	13.74/349	130
6"	31.89/810	32.28/820	24.02/610	17.32/440	370
8"	35.98/914	36.50/927	30.00/762	21.14/537	710
10"	44.29/1125	44.72/1136	35.98/914	22.83/580	990
12"	48.43/1230	49.02/1245	40.98/1041	25.79/655	1400

CH64Y-P2500Lb

NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg)
2"	17.76/451	17.87/454	10.98/279	9.84/250	60
2 1/2"	20.00/508	20.24/514	12.99/330	11.02/280	85
3"	22.76/578	22.99/584	14.49/368	12.13/308	100
4"	26.50/673	26.89/683	17.99/457	13.86/352	165
6"	35.98/914	36.50/927	24.02/610	17.32/440	460
8"	40.24/1022	40.87/1038	30.00/762	21.26/540	900
10"	50.00/1270	50.87/1292	35.98/914	22.83/580	1300
12"	55.98/1422	56.85/1444	40.98/1041	25.98/660	1800

Note: Specifications and sizes not listed in the list. For further information, please consult the CDG Engineer.

Y-type valve cover pressure self-sealing connection lift check valve

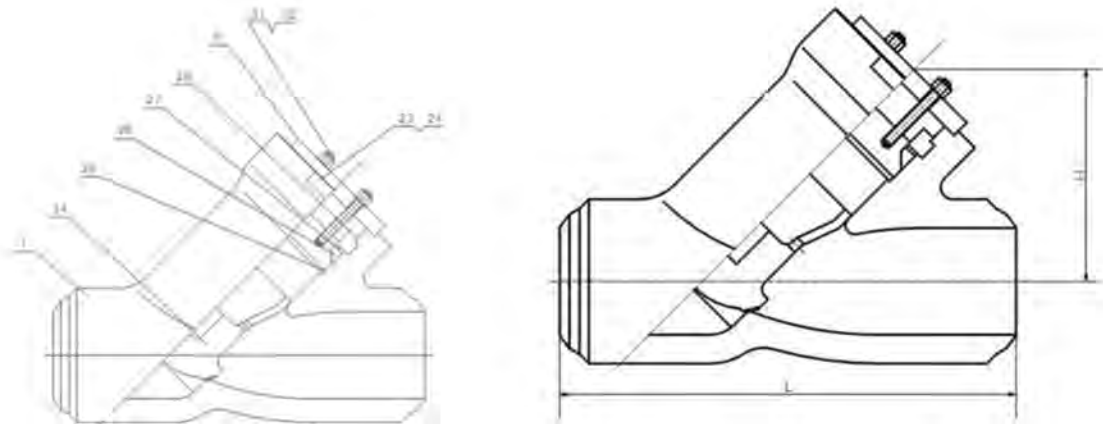


Serial number	Part name	WCB	WC6	WC9	CF8	CF3M	CE3MN
1	valve body	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF3M	CE3MN
6	Bonnet	A216 WCB	A216 WCB	A216 WCB	A351 CF8	A351 CF8	A351 CF8
23	Nameplate	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304
24	rivet	AL	AL	AL	AL	AL	AL
25	Self sealing seat	A105	A182 F11	A182 F22	A182 F304	A182 F316L	A182 F53
26	Self sealing gasket	304 Wire + Flexible Graphite					
27	Self sealing ring	A182 F6a	A182 F6a	A182 F6a	A182 F304	A182 F316L	A182 F53
28	Four open loop	A182 F6a	A182 F11	A182 F22	A182 F304	A182 F316L	A182 F53
31	Hanging bolt	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8M	A193 B8M
32	Nut	A194 2H	A194 2H	A194 2H	A194 8	A194 8M	A194 8M
34	Disc	A105	A182 F11	A182 F22	A182 F304	A182 F316L	A182 F53

CH61Y-PY600Lb

NPS	L(inch/mm)	H(inch/mm)	Weight (kg)
6"	17.99/457	15.98/406	182
8"	22.99/584	20.00/508	272
10"	27.99/711	25.00/635	454
12"	32.01/813	32.36/822	658
14"	32.01/813	32.36/822	658
16"	40.98/1041	41.50/1054	1270
18"	40.98/1041	41.50/1054	1270
20"	60.00/1524	47.01/1194	1588

Y-type cover pressure self-sealing connection swing check valve



CH61Y-PY900Lb

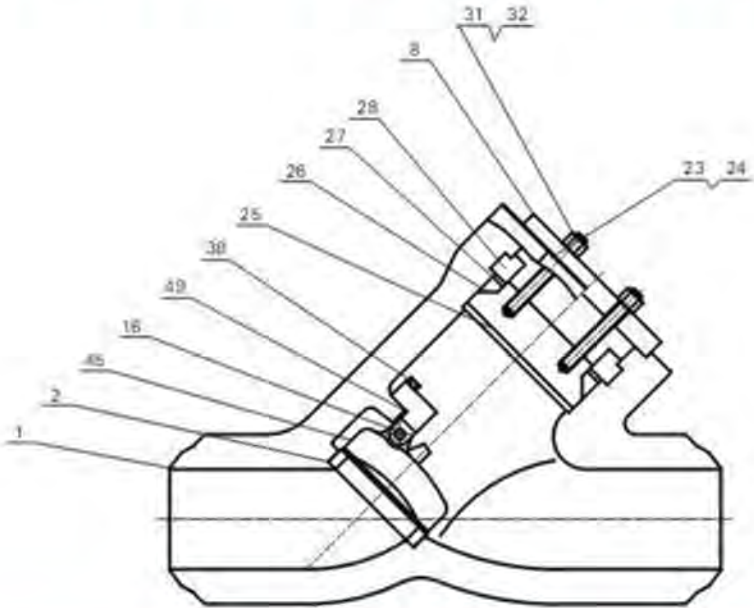
NPS	L(inch/mm)	H(inch/mm)	Weight (kg)
6"	27.76/705	17.99/457	182
8"	30.00/762	23.54/598	284
10"	36.26/921	28.19/716	527
12"	40.98/1041	35.08/891	718
14"	42.99/1092	35.08/891	718

CH61Y-PY1500Lb

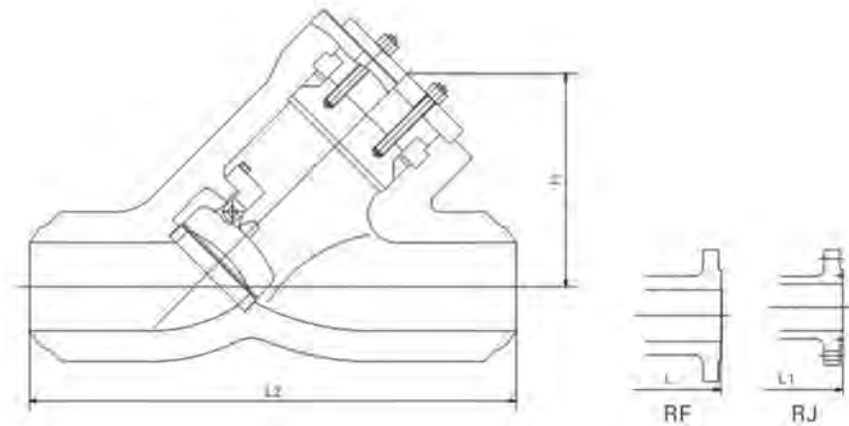
NPS	L(inch/mm)	H(inch/mm)	Weight (kg)
6"	27.76/705	17.99/457	182
8"	30.00/762	23.54/598	284
10"	36.26/921	28.19/716	527
12"	40.98/1041	35.08/891	718
14"	42.99/1092	35.08/891	718
16"	54.02/1372	44.45/1129	1397
18"	62.99/1600	44.45/1129	1420
20"	62.99/1600	44.45/1129	1782

CH61Y-PY2500Lb

NPS	L(inch/mm)	H(inch/mm)	Weight (kg)
6"	24.02/610	20.51/521	245
8"	30.00/762	24.09/612	300
10"	35.98/914	29.96/761	585
12"	40.98/1041	34.61/879	863
14"	48.74/1238	37.32/948	1380



Serial number	Part name	WCB	WC6	WC9	CF8	CF3M	CE3MN
1	valve body	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF3M	CE3MN
2	valve seat	A105	A182 F11	A182 F22	A182 F304	A182 F316L	A182 F53
8	Bonnet	A216 WCB	A216 WCB	A216 WCB	A351 CF8	A351 CF8	A351 CF8
16	Cross pin	A276 410	A276 410	A276 410	A276 304	A276 316L	A276 F53
23	Nameplate	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304
24	rivet	AL	AL	AL	AL	AL	AL
25	Self sealing seat	A105	A182 F11	A182 F22	A182 F304	A182 F316L	A182 F53
26	Self sealing gasket	304 Wire + Flexible Graphite					
27	Self sealing ring	A182 F6a	A182 F6a	A182 F6a	A182 F304	A182 F316L	A182 F53
28	Four open loop	A182 F6a	A182 F11	A182 F22	A182 F304	A182 F316L	A182 F53
31	Hanging bolt	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8M	A193 B8M
32	Nut	A194 2H	A194 2H	A194 2H	A194 8	A194 8M	A194 8M
45	Disc	A105	A182 F11	A182 F22	A182 F304	A182 F316L	A182 F53
49	Bracket	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF3M	CE3MN

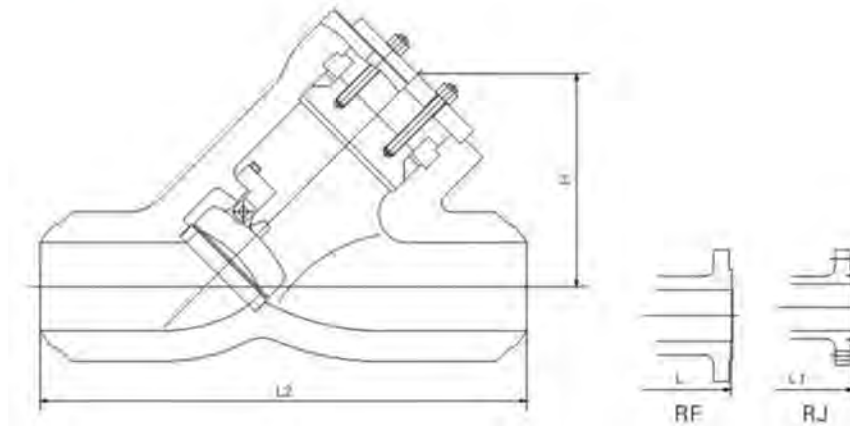


CH64Y-PY900Lb

NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg) welding	Weight (kg) flange
2"	15.00/381	15.12/384	10.00/254	7.48/190	20	50
2 1/2"	15.00/381	15.12/384	10.00/254	7.48/190	20	50
3"	15.00/381	15.12/384	11.97/304	7.48/190	20	50
4"	17.99/457	18.11/460	13.98/355	7.48/190	23	68
6"	23.98/609	24.09/612	20.00/508	9.49/241	59	159
8"	28.98/736	29.09/739	25.98/660	11.97/304	109	276
10"	32.99/838	33.11/841	30.98/787	15.00/381	213	473
12"	37.99/965	38.11/968	35.98/914	16.50/419	326	662
14"	40.47/1028	40.91/1039	38.98/990	17.99/457	408	907
16"	44.49/1130	44.88/1140	42.99/1092	19.72/501	589	1179
18"	47.99/1219	48.50/1232	47.99/1219	23.46/596	834	1655
20"	51.97/1320	52.48/1333	51.97/1320	25.98/660	1102	2143

CH64Y-PY1500Lb

NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg) welding	Weight (kg) flange
2"	18.46/469	18.62/473	10.00/254	7.72/196	25	68
2 1/2"	18.46/469	18.62/473	10.00/254	7.72/196	25	68
3"	18.46/469	18.62/473	11.97/304	7.72/196	25	68
4"	21.50/546	21.61/549	15.98/406	8.46/215	36	99
6"	27.72/704	27.99/711	21.97/558	10.47/266	91	235
8"	32.72/831	33.11/841	27.99/711	13.46/342	182	424
10"	38.98/990	39.37/1000	33.98/863	16.50/419	326	725
12"	44.49/1130	45.12/1146	38.98/990	18.46/469	499	1088



CH64Y-PY2500Lb

NPS	L(inch/mm)	L1(inch/mm)	L2(inch/mm)	H(inch/mm)	Weight (kg) welding	Weight (kg) flange
2"	17.76/451	17.87/454	12.99/330	7.99/203	26	113
2 1/2"	-	-	12.99/330	7.99/203	26	113
3"	22.76/578	22.99/584	14.49/368	7.99/203	36	113
4"	26.50/673	26.89/683	17.99/457	11.97/304	50	159
6"	35.98/914	36.50/927	24.02/610	12.99/330	145	445
8"	40.24/1022	40.87/1038	30.00/762	15.98/406	281	694
10"	50.00/1270	50.87/1292	35.98/914	17.99/457	520	1429
12"	55.98/1422	56.85/1444	40.98/1041	20.98/533	725	2068
14"	-	-	43.98/1117	22.99/584	975	2227
16"	-	-	47.99/1219	25.98/660	1247	2590
18"	-	-	52.99/1346	27.99/711	1587	2864
20"	-	-	56.97/1447	30.98/787	1927	3272